

WHAT IS CLAIMED IS:

1. An interactive language learning system comprising:

a computer system having a central processing unit (CPU) with associated memory and storage means, at least one input device, audio output means, audio input  
5 means and means for visual display;

means for presenting visual images of a simulated village model on the visual display, the image in the model having positional dependence on control through the input device by a learner, the village model including objects and characters;

means for monitoring position induced by the control input for proximity to a  
10 character in the village model;

means for prompting a statement from the character audible through the audio output means;

means for accepting a verbal input from the learner through the audio input means;

15 means for comparing the verbal input to a set of anticipated learner responses;  
means for determining a skill level of the learner based on an output from the comparing means;

means for selecting a new character response based on the skill level of the learner; and,

20 means for presenting the new character response as an audible statement from the character through the audio output means.

2. An interactive language learning system as defined in claim 1 further comprising means for monitoring the control input for designation of an object in the model;  
and,

25 means for providing a selected output in the target language descriptive of the object responsive to a designation.

3. An interactive learning system as defined in claim 2 wherein the selected output is an audible verbalization of the name of the object in the target language through the audio output means.
4. An interactive learning system as defined in claim 2 wherein the selected output is a text display of the name of the object in the target language.
5. An interactive learning system as defined in claim 4 further comprising:  
means for monitoring for an additional control input; and  
means for providing an audible verbal output of the name of the object displayed in the text.
- 10 6. An interactive learning system as defined in claim 2 wherein the selected output is a text input box displayed on the display and further comprising:  
means for accepting a text input by the learner into the input box;  
means for comparing the text input to the target language name of the object; and  
means for determining a skill level of the learner based on the comparison.
- 15 7. An interactive learning system as defined in claim 1 further comprising:  
means for displaying the audible statement from the character as first text; and,  
means for displaying anticipated learner responses as second text.
8. An interactive learning system as defined in claim 7 further comprising:  
means for accepting selection of the second text of one of the anticipated  
20 responses by a control input of the learner;  
means for selecting a new character response based on the selected text response;  
and,  
means for presenting the new character response as an audible statement from the character.
- 25 9. An interactive language learning system comprising:  
a computer system having a display;

means for presenting visual images of a simulated village model on the display having positional dependence on a control input from a learner, the village model including objects and characters;

means for monitoring position induced by the control input;

5 means for monitoring the control input for designation of an object in the model;  
and,

means for providing a selected output in the target language descriptive of the object responsive to a designation.

10. An interactive language learning system as defined in claim 9 wherein the  
10 computer system includes audio output means and the selected output is an audible verbalization of the name of the object in the target language.

11. An interactive language learning system as defined in claim 9 wherein the selected output is a text display of the name of the object in the target language.

12. An interactive language learning system as defined in claim 11 wherein the  
15 computer system includes audio output means and further comprising:  
means for monitoring for an additional control input; and  
means for providing an audible verbal output of the name of the object displayed in the text.

13. An interactive language learning system as defined in claim 9 wherein the  
20 selected output is a text input box displayed on the display and further comprising:  
means for accepting a text input by the learner into the input box;  
means for comparing the text input to the target language name of the object; and  
means for determining a skill level of the learner based on the comparison.

14. An interactive language learning system as defined in claim 9 wherein the  
25 selected output is a question mark displayed on the display and further comprising:  
means for accepting a verbal input by the learner;  
means for comparing the verbal input to the target language name of the object;  
and

means for determining skill level of the learner based on the comparison.

15. An interactive language learning system comprising  
a computer system having control input means, a display, audio input means and  
5 audio output means;

means for presenting visual images of a simulated village model on the display  
having positional dependence on a control input from a learner, the village model  
including objects and characters;

means for monitoring position induced by the control input for proximity to a  
10 character in the village model;

means for prompting an audible statement from the character responsive to the  
monitoring means;

means for displaying the audible statement from the character as first text; and,

means for displaying anticipated learner responses as second text.

15 16. An interactive language learning system as defined in claim 15 further comprising  
a means for playing an audio representation of a chosen portion of the first text  
responsive to a first control input and means for playing an audio representation of a  
chosen portion of the second text responsive to a second control input

17. An interactive language learning system as defined in claim 15 further  
20 comprising:

means for accepting a verbal input from the learner;

means for comparing the verbal input to a set of anticipated learner responses;

means for determining a skill level of the learner based on the comparison;

means for selecting a new character response based on the skill level of the  
25 learner; and,

means for presenting the new character response as an audible statement from the  
character.

18. An interactive language learning system as defined in claim 15 further comprising:

means for accepting selection of the second text of one of the anticipated responses by a control input of the learner;

5 means for selecting a new character response based on the selected text response; and,

means for presenting the new character response as an audible statement from the character.

19. An interactive language instruction system as defined in claim 1 further comprising means for determining a base skill level and wherein said prompting means selects the statement for the character responsive to the base skill level determined.

20. An interactive language instruction system as defined in claim 19 wherein the means for determining a base skill level comprises means for measuring response time of the verbal input received by the accepting means.

15 21. An interactive language instruction system as defined in claim 19 wherein the means for determining a base skill level comprises means for establishing a response rate based on a proportion of the number of correct words from a nearest one of the anticipated learner responses present in the verbal input from the learner.

22. An interactive language instruction system as defined in claim 19 wherein the means for determining a base skill level comprises means for establishing vocabulary knowledge of the learner.

23. An interactive language instruction system as defined in claim 19 wherein the means for determining a base skill level comprises:

25 means for measuring response time of the verbal input received by the accepting means;

means for establishing a response rate based on a proportion of the number of correct words from a nearest one of the anticipated learner responses present in the verbal input from the learner;

means for establishing vocabulary knowledge of the learner; and  
means for establishing a skill level score using weighted values from the means  
for measuring response time, means for establishing a response rate and means for  
establishing vocabulary knowledge.

5

24. A method for interactive language instruction on a computer system comprising  
the steps of:

presenting visual images of a simulated village model having positional  
dependence on control input from a learner, the village model including objects and  
10 characters;

monitoring position induced by the control input for proximity to a character in  
the village model;

prompting an audible statement from the character;

accepting a verbal input from the learner;

15

comparing the verbal input to a set of anticipated learner responses;

determining a skill level of the learner based on the comparison;

selecting a character response based on the skill level of the learner; and,

presenting the character response as an audible statement from the character.

25. A method as defined in claim 24 further comprising the steps of:

20

monitoring the control input for designation of an object in the model; and,

providing a selected output in the target language descriptive of the object  
responsive to a designation.

26. A method as defined in claim 25 wherein the selected output is an audible  
verbalization of the name of the object in the target language through the audio output

25

means.

27. A method as defined in claim 25 wherein the selected output is a text display of  
the name of the object in the target language.

28. A method as defined in claim 27 further comprising the steps of:

monitoring for an additional control input; and  
providing an audible verbal output of the name of the object displayed in the text.

29. A method as defined in claim 25 wherein the selected output is a text input box displayed on the display and further comprising the steps of:

5        accepting a text input by the learner into the input box;  
         comparing the text input to the target language name of the object; and  
         determining a skill level of the learner based on the comparison.

30. A method as defined claim 24 further comprising the steps of:

         displaying the audible statement from the character as first text; and,  
10        displaying anticipated learner responses as second text.

31. A method as defined claim 30 further comprising the steps of:

         accepting selection of the second text of one of the anticipated responses by a  
         control input of the learner;  
         selecting a new character response based on the selected text response; and,  
15        presenting the new character response as an audible statement from the character.

32. A method for interactive language instruction on a computer system comprising the steps of:

         presenting visual images of a simulated village model having positional  
20        dependence on control input from a learner, the village model including objects and  
         characters;  
         monitoring position induced by the control input;  
         monitoring the control input for designation of an object in the model; and,  
         providing a selected output in the target language descriptive of the object  
25        responsive to a designation.

33. A method as described in claim 32 wherein the selected output is an audible verbalization of the name of the object in the target language.

34. A method as described in claim 32 wherein the selected output is a text display of the name of the object in the target language.

35. A method as described in claim 34 further comprising the steps of:

monitoring for an additional control input; and

5 providing an audible verbal output of the name of the object displayed in the text.

36. A method as described in claim 32 wherein the selected output is an input box and further comprising the steps of:

accepting a text input by the learner into the input box;

comparing the text input to the target language name of the object; and

10 determining a skill level of the learner based on the comparison.

37. A method for interactive language instruction on a computer system comprising the steps of:

presenting visual images of a simulated village model having positional dependence on control input from a learner, the village model including objects and  
15 characters;

monitoring position induced by the control input for proximity to a character in the village model;

prompting an audible statement from the character;

displaying the audible statement from the character as first text; and,

20 displaying anticipated learner responses as second text.

38. A method as described in claim 37 further comprising the step of playing an audio representation of a chosen portion of the first text responsive to a first control input and playing an audio representation of a chosen portion of the second text responsive to a second control input

25 39. A method as described in claim 37 further comprising the steps of:

accepting a verbal input from the learner;

comparing the verbal input to a set of anticipated learner responses;

determining a skill level of the learner based on the comparison;



selecting a character response based on the skill level of the learner; and,  
presenting the character response as an audible statement from the character.

40. A method as described in claim 37 further comprising the steps of:  
accepting selection of the second text of one of the anticipated responses by a  
5 control input of the learner;

selecting a character response based on the selected text response; and,  
presenting the character response as an audible statement from the character.

41. A method as described in claim 24 wherein the step of determining a skill level  
further comprises the steps of:

10 determining a base skill level and wherein said step of prompting selects the  
statement for the character responsive to the base skill level determined.

42. A method as defined in claim 41 wherein the step of determining a base skill level  
comprises measuring response time of the verbal input received by the accepting means.

43. A method as defined in claim 42 wherein the step of determining a base skill level  
15 further comprises the step of establishing a response rate based on a proportion of the  
number of correct words from the nearest of the anticipated learner responses present in  
the verbal input from the learner.